

CLAIMS

1. A leakage water cut-off agent comprising (a) a water-absorptive polymer dispersed without swelling in (b) a dispersing medium containing alkylene glycol derivatives having repeated units of 2 carbon atoms or more as the indispensable component.
2. A leakage water cut-off agent according to Claim 1 further comprising (c) a gellant of water-absorption polymer.
3. A leakage water cut-off agent according to Claim 1 or 2, wherein said gellant is a compound which can release a 2 or more valences of metal cation in water or has a cation-exchange capacity in water.
4. A leakage water cut-off agent according to Claim 1 or 2 further comprising a storage stabilizer.
5. A leakage water cut-off agent according to any one of Claims 1 to 4, wherein said water-absorptive polymer contains a highly water-absorptive polymer and a water-absorptive natural polymer.
6. A leakage water cut-off agent according to Claim 5, wherein said high water-absorptive polymer is at least one selected from the group consisting of poly (meth)acrylic acid derivatives, alginic acid derivatives, starch derivatives, poly-N-vinylacetamide derivatives, polyvinylalcohol derivatives and cellulose derivatives.

7. A leakage water cut-off agent according to Claim 5 or 6, wherein said water-absorptive natural polymer is at least one selected from the group consisting of alginic acid, sodium alginate and guar gum.

8. A leakage water cut-off agent according to any one of Claims 1 to 7, wherein said alkylene glycol derivatives comprise at least one selected from the group consisting of polyethylene glycol, polypropylene glycol and polybutylene glycol.

9. A leakage water cut-off agent according to any one of Claims 1 to 8 comprising water.

10. A method for manufacturing the leakage water cut-off agent according to Claim 9 characterized by that (a) said water-absorptive polymer is added to disperse in the aqueous solution of (b) said alkylene glycol derivative having repeated units of 2 carbon atoms or more.

11. A leakage water cut-off material characterized by that the leakage water cut-off agent according to any one of Claims 1 to 10 is infiltrated in a spongy substance.

12. A leakage water cut-off material according to Claim 11, wherein said spongy substance is at least one selected from the group consisting of an urethane foam, a silicon resin foam, a synthetic rubber foam and a cellulose sponge.

13. A leakage water cut-off material comprising at least

one selected from the group consisting of string, rope, film, sheet, cloth, unwoven fabric and paper, which is coated or infiltrated by the leakage water cut-off agent according to any one of Claims 1 to 10.

14. A method for preventing water leakage characterized by that the water leakage preventive material according to any one of Claims 11 to 13 is placed to the water leakage pathway of a construction.

15. A method for preventing water leakage according to Claim 14, wherein said water leakage pathway is a joint surface or faying surface of concrete.

16. A method for preventing water leakage characterized by that the leakage water cut-off agent according to any one of Claims 1 to 10 is injected into the injecting holes set in a concrete construction.

17. A method for preventing water leakage according to Claim 16, wherein said injecting holes are set in zigzag along the both sides of a crack.